

What is claimed is:

1. A massage machine comprising a living body  
information sensor for detecting the living body information  
of the autonomic nervous system of the person to be massaged,  
5 and a control circuit for controlling a massage operation  
based on the living body information detected by the sensor,  
the control circuit comprising psychological state estimating  
means for estimating the psychological state of the person  
based on variations in the living body information detected  
10 by the sensor, and massage movement adjusting means for  
adjusting a massage movement in accordance with the estimated  
psychological state.

2. A massage machine according to claim 1 wherein the  
massage movement adjusting means comprises mode changeover  
15 means for switching between a relaxation mode and a  
refreshment mode, and the massage movement is so adjusted as  
to lower the activity of the autonomic nervous system in the  
relaxation mode and is so adjusted as to increase the  
activity of the autonomic nervous system in the refreshment  
20 mode.

3. A massage machine according to claim 1 wherein the  
living body information sensor includes one or a plurality of

sensors selected from among a galvanic skin response sensor, a pulse sensor and a skin temperature sensor.

4. A massage machine according to claim 3 wherein when the living body information sensor comprises a galvanic skin response sensor, the psychological state estimating means of the control circuit interprets an impaired galvanic skin response as indicating a relaxed state, and a higher galvanic skin response as indicating a tense state.

5. A massage machine according to claim 3 wherein when the living body information sensor comprises a pulse sensor, the psychological state estimating means of the control circuit interprets a reduced pulse rate as indicating a relaxed state, and an increased pulse rate as indicating a tense state.

6. A massage machine according to claim 3 wherein when the living body information sensor comprises a skin temperature sensor, the psychological state estimating means of the control circuit interprets a rise in the skin temperature as indicating a relaxed state, and a drop in the skin temperature as indicating a tense state.

7. A massage machine according to claim 3 wherein the psychological state estimating means of the control circuit

judges the level of activity of the person in accordance with variations in at least one item of living body information selected from among galvanic skin response, pulse rate and skin temperature, and interprets low activity as indicating a relaxed state and high activity as indicating a tense state.

8. A massage machine according to claim 1 wherein the control circuit gives different kinds of massages to a plurality of parts of the person in estimating the psychological state to estimate the psychological state for each kind of massage given to each part, and adjusts the message movement for each kind of the massage to be given to each part in accordance with the result of estimation of the psychological state.

9. A massage machine according to claim 2 wherein the message operation is executed by a sequence of message movements, and the message movement adjusting means of the control circuit comprises time adjusting means for adjusting the time required for a predetermined number of message movements so as to complete the sequence of message movements within approximately the same period of time whether the relaxation mode or the refreshment mode is selected.

10. A massage machine comprising a living body  
information sensor for detecting the living body information  
of the autonomic nervous system of the person to be massaged,  
and a control circuit for controlling massage based on the  
5 living body information detected by the sensor, the control  
circuit comprising psychological state estimating means for  
estimating the psychological state of the person based on  
variations in the living body information detected by the  
sensor by executing a preliminary massage, and massage  
10 operation adjusting means for adjusting a full massage  
operation in accordance with the estimated psychological  
state.

11. A massage machine according to claim 10 which  
further comprises memory means for storing the result of  
15 estimation of the psychological state, and the massage  
operation is adjusted based on the result of estimation of  
the psychological state read from the storage means.

12. A massage machine according to claim 10 wherein the  
living body information sensor includes one or a plurality of  
20 sensors selected from among a galvanic skin response sensor,  
a pulse sensor and a skin temperature sensor.

13. A massage machine according to claim 12 wherein when

the living body information sensor comprises a galvanic skin response sensor, the psychological state estimating means of the control circuit interprets an impaired galvanic skin response as indicating a relaxed state, and a higher galvanic skin response as indicating a tense state.

14. A massage machine according to claim 12 wherein when the living body information sensor comprises a pulse sensor, the psychological state estimating means of the control circuit interprets a reduced pulse rate as indicating a relaxed state, and an increased pulse rate as indicating a tense state.

15. A massage machine according to claim 12 wherein when the living body information sensor comprises a skin temperature sensor, the psychological state estimating means of the control circuit interprets a rise in the skin temperature as indicating a relaxed state, and a drop in the skin temperature as indicating a tense state.

16. A massage machine according to claim 12 wherein the psychological state estimating means of the control circuit judges the level of activity of the person in accordance with variations in at least one item of living body information selected from among galvanic skin response, pulse rate and

skin temperature, and interprets low activity as indicating a relaxed state and high activity as indicating a tense state.

17. A massage machine according to claim 10 wherein the massage operation adjusting means comprises mode changeover  
5 means for switching between a relaxation mode and a refreshment mode, and adjusts different massage movements in the different modes.

18. A massage machine according to claim 10 wherein the control circuit gives different kinds of massages to a  
10 plurality of parts of the person in the preliminary massage to estimate the psychological state for each kind of massage given to each part, and adjusts the massage movement for each kind of the massage to be given to each part in the full massage operation, in accordance with the result of  
15 estimation of the psychological state.

19. An electronic device having a controller for transmitting control signals to a body of the device to control the operation of the device body, the controller comprising a casing to be grasped by one hand or both hands,  
20 manual keys arranged on the casing, and one or a plurality of living body information sensors arranged on the casing and positioned to be brought into contact with the grasping hand,

the controller being operable to transmit living body information detected by the sensors to the device body as control signals, the device body comprising a control circuit for receiving the control signals from the controller to  
5 control the operation of the device, the control circuit comprising psychological state estimating means for estimating the psychological state of the operator based on variations in the living body information received as the control signals, and control means for controlling the  
10 operation of the device in accordance with the estimated psychological state.

20. An electronic device according to claim 19 wherein the controller is provided separately from the device body and transmits the control signals to the device body through  
15 a wire or wirelessly.

21. An electronic device according to claim 19 wherein the controller is joined to the device body and transmits the control signals to the device body through a wire.

22. An electronic device according to claim 19 wherein  
20 the living body information sensor includes one or a plurality of sensors selected from among a galvanic skin response sensor, a pulse sensor and a skin temperature sensor.

23. An electronic device according to claim 22 wherein when the living body information sensor comprises a galvanic skin response sensor, the psychological state estimating means of the control circuit interprets an impaired galvanic skin response as indicating a relaxed state, and a higher galvanic skin response as indicating a tense state.

24. An electronic device according to claim 22 wherein when the living body information sensor comprises a pulse sensor, the psychological state estimating means of the control circuit interprets a reduced pulse rate as indicating a relaxed state, and an increased pulse rate as indicating a tense state.

25. An electronic device according to claim 22 wherein when the living body information sensor comprises a skin temperature sensor, the psychological state estimating means of the control circuit interprets a rise in the skin temperature as indicating a relaxed state, and a drop in the skin temperature as indicating a tense state.

26. An electronic device according to claim 22 wherein the psychological state estimating means of the control circuit judges the level of activity of the operator in accordance with variations in at least one item of living



body information selected from among galvanic skin response, pulse rate and skin temperature, and interprets low activity as indicating a relaxed state and high activity as indicating a tense state.